

RICHARD CHARLES DART, MD, PhD

PERSONAL DATA

Date of Birth: March 31, 1955

Place of Birth: Detroit, Michigan

Address: Rocky Mountain Poison and Drug Center
777 Bannock St., MC 0180
Denver, CO 80204

Telephone: 303-739-1240 (work)
303-873-0369 (home)

Citizenship: United States of America

PRESENT POSITIONS: Director, Rocky Mountain Poison & Drug Center
Denver Health Authority
And
Chief Business Development Officer
Denver Health and Hospital Authority
777 Bannock Street, MC 0180
Denver, Colorado 80204

Professor of Surgery (Emergency Medicine)
University of Colorado Health Sciences Center
4200 E. Ninth Avenue
Denver, Colorado 80262

Chief, Medical Toxicology Service
Denver Health Medical Center
777 Bannock Street
Denver, Colorado 80204

EDUCATION

Undergraduate School: Albion College, Albion, Michigan, B.A. Biology; summa cum laude,
1977

Medical School: Wayne State University School of Medicine, Detroit,
Michigan, M.D.; 1981

Internship: Albany Medical Center, Albany, New York, Internal
Medicine; July 1981 - June 1982

Residency: Albany Medical Center, Albany, New York, Internal Medicine; July 1982 - June 1983

University of Arizona Health Sciences Center Tucson, Arizona, Emergency Medicine; July 1983 - June 1985

Chief Resident, Emergency Medicine; July 1984-June 1985

Fellowship Emergency Medicine Clinical Toxicology
University of Arizona Section of Emergency Medicine;
July 1985 - June 1987

Advanced Postgraduate Training: University of Arizona, College of Pharmacy,
Doctoral Dissertation, Pharmacology/Toxicology, "Hepatic injury and lipid peroxidation in hemorrhagic shock and resuscitation."
1986-1991.

ACADEMIC APPOINTMENTS

Professor Section of Emergency Medicine, Department of Surgery
University of Colorado Health Sciences Center
4200 E. Ninth Avenue
Denver, Colorado 80262
October 2001 - current.

Associate Professor of Pharmacy, Toxicology Program
Adjunct University of Colorado Health Sciences Center
4200 E. Ninth Avenue
Denver, Colorado 80262
August 1, 2003 – current

Faculty Appointment Clinical Sciences Program
University of Colorado Health Sciences Center
4200 E. Ninth Avenue
Denver, Colorado 80262
July 2, 2004 - current

Associate Professor, Department of Surgery
Section of Emergency Medicine University of Colorado Health Sciences Center
4200 E. Ninth Avenue
Denver, Colorado 80262
October 1992 – 2001

Adjunct Clinical Faculty School of Pharmacy
University of Wyoming
1000 E. University Avenue
Laramie, WY 82071
June 2007 - current

Clinical Lecturer	Department of Surgery University of Arizona October 1992 - Current.
Fellowship Director	Clinical Toxicology Fellowship 1989-1991, University of Arizona.
Assistant Professor	Section of Emergency Medicine, Department of Surgery, Tenure Track University of Arizona, June 1991 - October 1992.
Instructor	Section of Emergency Medicine, Department of Surgery, Tenure Track July 1987 - June 1991.

OTHER PROFESSIONAL EXPERIENCE

Staff Physician, Emergency Department, University Hospital, 1992 - 1996.

Staff Physician, Internal Medicine (Medical Toxicology), Denver Health Medical Center, 1992 - current

Medical Consultant, Venom Research Laboratory, Veterans Administration Hospital, Salt Lake City, Utah.

Medical Consultant, Denver Zoological Foundation, Denver, Colorado.

Associate Medical Director and Attending Physician Arizona Poison and Drug Information Center. July 1987 - 1992.

Attending Physician - Section of Emergency Medicine, University of Arizona Health Sciences Center, July 1985 - 1992.

Director, Clinical Toxicology Program, University Medical Center, Tucson, Arizona, 1991 - 1992.

BOARDS

American Association of Poison Control Centers, President-elect, 2008-2010.

American Association of Poison Control Centers, Treasurer, 2004-2006, 2006-2008.

American Board of Emergency Medicine, Medical Toxicology Sub-Board Member, 1993-1998.

American Association of Poison Control Centers, Board of Directors, 1994-2000.

Advisory Board, American Pharmaceutical Association, Responsible Use of Nonprescription Products, 1998 - 2000.

American College of Medical Toxicology, Board of Directors, 1993 - 1996.

Advisory Board, Occupational Medicine Program, University of Arizona, 1991-1992.

Medical Advisory Board, Remote Area Medical Volunteer Corp. Provides expert volunteers from the medical, natural resource, veterinary, economic and agricultural fields to rural populations.

LICENSURE/CERTIFICATIONS

Medical License Colorado 1992 - Current
 Arizona 1986 - Current
 Idaho 1998 - Current

Recertification - American Board of Emergency Medicine, 1996 and 2006.

Diplomate - American Board of Emergency Medicine, November 23, 1986.

Diplomate - American Board of Medical Toxicology September 30, 1988.

Fellow - American College of Emergency Physicians, 1990.

Fellow – American College of Medical Toxicology, 1996.

HONORS

Summa Cum Laude - Albion College 1977.

Phi Beta Kappa - Albion College 1977.

American College of Emergency Physicians Research Scholar, 1985-1986.

Emergency Medicine Foundation/McNeil Consumer Products Research Scholar, 1986-1987.

Emergency Medicine Foundation/McNeil Consumer Products Research Scholar, 1987-1988.

National Institutes of Health Individual Postdoctoral Fellowship Award, 1988-1990.

Best Scientific Paper, 1994. Dart RC, Seifert SA, Carroll L, et al. Human multicenter trial of an affinity purified antibody fragment for snake venom poisoning. American Association of Poison Control Centers.

Food and Drug Administration (FDA) 2001. Commissioner's Special Citation for contribution to the development of CroFab antivenom to treat patients with North American crotalid snake envenomation.

American College of Medical Toxicology. Matthew J. Ellenhorn Award for Excellence in Medical Toxicology, 2004.

University of Colorado Health Sciences Center Clinical Sciences Program Outstanding Research Mentor Award, 2005.

EDITORIAL BOARDS

Editorial Board, Toxicology Section Editor, Annals of Emergency Medicine, 1992 – 2007.
Deputy Editor 2007-current.

Editorial Board, Toxicology Section Editor, Journal of Intensive Care Medicine, 1992 - 1998.

Guest Editor, "Case Reports in Environmental Medicine - Gasoline Toxicity", Agency for Toxic Substances and Disease Registry.

Associate Editor, POISINDEX Information System, 1990 - current.

Co-Editor, Abstract Section, Annals of Emergency Medicine, 1990 - 1992.

Guest Editor, Annals Collector Series on Toxicology. Annals of Emergency Medicine, 1993.

Guest Editor, Toxicology of Metals, Journal of Toxicology - Clinical Toxicology, 1992.

Manuscript Reviewer for:

New England Journal of Medicine
Journal of the American Medical Association
Annals of Emergency Medicine
Archives of Internal Medicine
Public Library of Science (PLOS)
Life Sciences
American Journal of Tropical Medicine
Toxicon
Journal of Toxicology - Clinical Toxicology
Journal of Pharmacology and Experimental Therapeutics

ORGANIZATIONS

American Academy of Clinical Toxicology
American Association of Poison Control Centers
American College of Emergency Physicians
International Society of Toxinology
Society for Academic Emergency Medicine
The Futurist Society
Drug Information Association
Society of Toxicology
College on Problems of Drug Dependence

COMMITTEES - HOSPITALS

Executive Committee, Denver Health and Hospitals, 2008-current

President, Denver Health Medical Staff, 2006-2008.

Chairman, Pharmacy Task Force, Denver Health Medical Center, 1994-current.

Chairman, Pharmacy and Therapeutics Committee, Denver Health Medical Center, 1995 - current.

COMMITTEES - STATE

Drug Box Committee, Arizona Department of Health Services Emergency Medical Services, 1989-1992.

COMMITTEES - NATIONAL

American Association of Poison Control Centers, Finance and Audit Committee, Chair, 2006-2008

Guidelines Committee, American Association of Poison Control Centers. 2003 – 2005.

Terrorism Response Task Force. American College of Emergency Physicians. 2002 – current.

Long Range Planning Committee, American Association of Poison Control Centers. 2000 – current.

Bioterrorism Workgroup on Critical Chemical Agents. Centers for Disease Control and Prevention, 1999.

Federal Legislative Committee, American Association of Poison Control Centers. 1998 - current.

Poison Control Center Leadership Group. Joint Working Group under the Maternal and Child Health Bureau and the National Center for Injury Prevention and Control, Department of Health and Human Services. January 1995 - current.

Invited Participant, "Research Directions in Emergency Medicine", Joint conference of American College of Emergency Physicians, Society of Academic Emergency Medicine and the Emergency Medicine Foundation. Atlanta, Georgia, January 21 - 22, 1995.

Chairman, Research Committee, American College of Emergency Physicians, 1993 - 1995, committee member 1988 - 1995.

Scientific Review Panel, American College of Emergency Physicians, 1993 - 1995.

Scientific Review Committee, American Association of Poison Control Centers, 1990- 2000.

Pharmaceutical and Technology Committee, Society of Academic Emergency Medicine, 1991 - 1992.

COMMITTEES - INTERNATIONAL

Expert Meeting on Envenomations and Their Treatment. World Health Organization. 1995 - current.

MEDICAL SCHOOL TEACHING

Fellowship in Medical Toxicology, approximately 300 hours/year of combined didactic and clinical direct teaching.

Emergency Medicine Residents, 6-1-hour Basic Toxicology lecture per year, 1992 - current.

Internal Medicine Residents Medical Subspecialty Conference at Denver Health Medical Center once per year, 1992 - current.

University of Colorado School of Pharmacy - 4 hr lecture on Clinical Pharmacology of Antidotes to PharmD class per year, 1993 - current.

Lecturer in Introduction to Emergency Medicine Course, University of Colorado, 1993 - current.

PUBLICATIONS

Books

White J, Dart RC. Snakebite: A Brief Medical Guide. Cadmus Communications, Inc. Lancaster, PA. 2007.

GM Bogdan, DL Scherger, S Brady, D Keller, AM Seroka, KM Wruk, J Peterson, DD Swanson, K Ammon, DW Daley, RC Dart, PA Gabow. Health Emergency Assistance Line and Triage Hub (HEALTH) Model. Prepared by Denver Health -- Rocky Mountain Poison and Drug Center under Contract No. 290-0014. AHRQ Publication No. 05-0040. Rockville, MD: Agency for Healthcare Research and Quality. January 2005.

Dart RC. Medical Toxicology 3rd Edition. Lippincott, Williams & Wilkins, Philadelphia, PA, 2004.

Dart RC, Hurlbut KM, Kuffner EK, Yip L (eds). The 5 Minute Toxicology Consult. Lippincott, Williams & Wilkins, Philadelphia, PA 2000.

Peer Reviewed Journals

Yarema MC, Johnson DW, Berlin RJ, Sivilotti ML, Nettel-Aguirre A, Brant RF, Spyker DA, Bailey B, Chalut D, Lee JS, Plint AC, Pursell RA, Rutledge T, Seviour CA, Stiell IG, Thompson M, Tyberg J, Dart RC, Rumack BH. Comparison of the 20-hour Intravenous and 72-hour Oral Acetylcysteine Protocols for the Treatment of Acute Acetaminophen Poisoning. Ann Emerg Med 2009;54:606-614.

Dart RC, Paul IM, Bond GR, Winston DC, Manoguerra AS, Palmer RB, Kauffman RE, Banner W, Green JL, Rumack BH. Pediatric Fatalities Associated with Over the Counter (Nonprescription) Cough and Cold Medication. Ann Emerg Med. 2009;53:411-417.

Dart RC, Borron SW, Caravati EM, Cobaugh DJ, Curry SC, Falk JL, Goldfrank L, Gorman SE, Groff S, Heard K, Miller K, Olson KR, O'Malley G, Seger D, Seifert SA, Sivilotti ML, Schaeffer T, Tomassoni AJ, Wise R, Bogdan GM, Alhelail M, Buchanan J, Hoppe J, Lavonas E, Mlynarchek S, Phua DH, Rhyee S, Varney S, Zosel A (Antidote Summit Authorship Group). Expert Consensus Guidelines for Stocking of Antidotes in Hospitals That Provide Emergency Care. *Ann Emerg Med*. 2009 May 5.

Bailey JE, Campagna E, Dart RC; The RADARS System Poison Center Investigators. The Underrecognized Toll of Prescription Opioid Abuse on Young Children. *Ann Emerg Med*. 2009;53:419-424.

Spiller H, Lorenz DJ, Bailey JE, Dart RC. Epidemiological Trends in the Abuse and Misuse of Prescription Opioids. *J Addict Dis* 2009;28:130-136.

Heard KJ, Ries NL, Bogdan GM, Zallen RD, Dart RC. Overuse of Non-Prescription Analgesics by Dental Clinic Patients. *BMC Oral Health* 2008;8:33.

Green JL, Campagna E, Bogdan GM, Dart RC, Heard K. Effects of clinical laboratory choice on study outcome: an interlaboratory evaluation of aminotransferase levels. *Pharmacotherapy* 2008;28:453-7

Smith MY, Irish W, Wang J, Haddox JD, Dart RC. Detecting signals of opioid analgesic abuse: application of a spatial mixed effect poison regression model using data from a network of poison control centers. *Pharmacoepidemiol Drug Saf*. 2008;17(11):1050-9.

Cicero TJ, Dart RC, Inciardi JA, Woody GE, Schnoll S, Munoz A. The development of a comprehensive risk-management program for prescription opioid analgesics: researched abuse, diversion and addiction-related surveillance (RADARS®). *Pain Med* 2007;8:157-170.

Dart RC, Bailey, E. Does therapeutic use of acetaminophen cause acute liver failure? *Pharmacotherapy* 2007;27(9):1219-1230.

Hall A, Dart RC, Bogdan G. Sodium thiosulfate or hydroxocobalamin for the empiric treatment of cyanide poisoning? *Ann Emerg Med* 2007 49(6):806-813.

Heard K, Green JL, Bailey JE, Bogdan GM, Dart RC. A randomized trial to determine the change in alanine aminotransferase during 10 days of paracetamol (acetaminophen) administration in subjects who consume moderate amounts of alcohol. *Aliment Pharmacol Ther* 2007;26:283-290.

Kuffner EK, Green JL, Bogdan GM, Knox PC, Palmer RB, Heard KH, Slattery JT, Dart RC. The effect of acetaminophen (four grams a day for three consecutive days) on hepatic tests in alcoholic patients – a multicenter randomized study. *BMC Medicine*. 2007;5(13):1-9.

Smith MY, Schneider MF, Wentz A, Hughes A, Haddox JD, Dart RC. Quantifying morbidity associated with the abuse and misuse of opioid analgesics: a comparison of two approaches. *Clin Toxicol* 2007; 45:23-30.

Hughes AA, Bogdan GM, Dart RC. Active surveillance of abused and misused prescription opioids using poison center data: A Pilot Study and Descriptive Comparison. Clin Toxicol 2007; 45:144-151.

Bebarta VS, Heard K, Dart RC. Inhalational abuse of methanol products: elevated methanol and formate levels without vision loss. Am J Emerg Med. 2006 Oct; 24(6):725-728.

Dart RC, Bevelacqua A, DeAtley C, et al. Countering Chemical Agents. Multispecialty consensus guidelines for prehospital management of mass casualties from chemical warfare agents. JEMS. 2006;31(12):36-41.

Dart RC, Erdman AR, Olson KR, et al. Acetaminophen Poisoning: An Evidence Based Consensus Guideline for Out-Of-Hospital Management. Clin Toxicol 2006;44:1-18.

Heard K, Sloss D, Weber S, Dart RC. Overuse of Over-the-Counter Analgesics by Emergency Department Patients. Ann Emerg Med 2006;48:315-318.

Dart RC. Hydroxocobalamin for acute cyanide poisoning: new data from preclinical and clinical studies; new results from the prehospital emergency setting. Clin Toxicol 2006;44 Suppl 1:3.

Bailey JE, Barton PL, Lezotte D, Lowenstein SR, Dart RC. The effect of FDA approval of a generic competitor to OxyContin® (oxycodone HCl controlled-release) tablets on the abuse of oxycodone. Drug Alcohol Depend 2006;84:182-7.

Heard K, Dart RC, Bogdan G, O'Malley GF, et al. A preliminary study of tricyclic antidepressant (TCA) ovine FAB for TCA toxicity. Clin Toxicol 2006;44(3):275-81.

Smith MY, Dart RC, Hughes A, Geller A, Senay E, Woody G, et al. Clinician validation of Poison Control Center (PCC) intentional exposure cases involving prescription opioids. Am J Drug Alcohol Abuse 2006;32:465-78.

DeWitt CR, Heard K, Cleveland N, Dart RC. The Effect of Amiodarone Pretreatment on Survival of Mice with Cocaine Toxicity. J Med Toxicol 2005;1:11-18.

Dart RC, Green JL, Bogdan GM. The Safety Profile of Sustained Release Paracetamol (Acetaminophen) During Therapeutic Use and Following Overdose. Drug Safety 2005;28:1045-1056.

Daly FS, O'Malley GF, Heard K, Bogdan GM, Dart RC. Prospective Evaluation of Repeated Supratherapeutic Acetaminophen (Paracetamol) Ingestion. Ann Emerg Med 2004;44:393-398.

Bogdan GM, Green JL, Swanson D, Gabow PA, Dart RC. Evaluating Patient Compliance to Nurse Advice Line Recommendations and the Impact on Healthcare Costs. Am J Man Care 2004;10:534-542.

Wisniewski MS, Hill RE, Havey JM, Bogdan GM, Dart RC. Australian tiger snake (Notechis scutatus) and Mexican coral snake (Micrurus species) antivenoms prevent death from United States coral snake (Micrurus fulvius fulvius) venom in a mouse model. J Toxicol Clin Toxicol 2003;41:7-10.

Kostic MA, Dart RC. Rethinking the toxic methanol level. *J Toxicol Clin Toxicol* 2003;41:793-800.

Krantz MJ, Dart RC, Mehler PS. Transient pulmonary infiltrates possibly induced by quinine sulfate. *Pharmacotherapy*; 2002;22:775-778.

Gold BS, Dart RC, Barish RA. Bites of venomous snakes. *N Engl J Med* 2002;347:347-56

Dart RC. The use and effect of analgesics in patients who regularly drink alcohol. *Am J Man Care* 2001;19,Suppl:S597-S601.

Kuffner EK, Dart RC. Acetaminophen use in patients who drink alcohol: current study evidence. *Am J Man Care* 2001;19,Suppl:S592-S596.

Kuffner EK, Dart RC, Bogdan GM, Hill RE, Casper E, Darton L. Effect of Maximal Daily Doses of Acetaminophen on the Liver of Alcoholic Patients: A Randomized, Double-blind, Placebo-Controlled Trial. *Arch Intern Med*. 2001;161:2247-2252.

Dart RC, Seifert SA, Boyer LV, Clark RF, Hall E, McKinney P, McNally J, Kitchens CS, Curry SC, Bogdan GM, Ward SB, Porter RS. A randomized multicenter trial of crotalinae polyvalent immune Fab (ovine) antivenom for the treatment of crotaline snakebite in the United States. *Arch Intern Med* 2001;161:2030-2036.

Daly FFS, Hill RE, Bogdan GM, Dart RC. Neutralization of *Latrodectus mactans* and *L. hesperus* venom by Redback spider (*L. Hasseltii*) antivenom. *J Toxicol Clin Toxicol* 2001;119:124.

Dart RC, McNally JT. Efficacy, safety, and use of snake antivenoms in the United States. *Ann Emerg Med* 2001;37:181-188.

Dart RC, Waeckerle JF. Introduction: "Advances in the management of snakebite" symposium. *Ann Emerg Med* 2001;37:166.

Hill RE, Bogdan GM, Dart RC. Time to reconstitution: purified Fab vs. unpurified IgG antivenom. *Toxicon* 2001;39:729-731.

Hill RE, Bogdan GM, Dart RC. Attenuation of verapamil-induced myocardial toxicity in an ex vivo rat model using a verapamil-specific ovine immunoglobulin. *Academic Emergency Medicine* 2001;8:950-955.

Waksman J, Taylor RN Jr, Bodor GS, Daly FF, Jolliff HA, Dart RD. Acute myocardial infarction associated with amphetamine use. *Mayo Clinic Proceedings* 2001;76:323-326.

Dart RC, Kuffner EK, Rumack BH. Treatment of pain or fever with paracetamol (acetaminophen) in the alcoholic patient: a systematic review. *Am J Ther* 2000;7:123-134.

Dart RC, Goldfrank LR, Chyka, PA, et al. Combined Evidence-Based Literature Analysis and Consensus Guidelines for Stocking of Emergency Antidotes in the United States. *Ann Emerg Med* 2000;36:2:126-132.

Bogdan GM, Dart RC, Falbo SC, McNally J, Spaite D. Recurrent coagulopathy after antivenom treatment of crotalid snakebite. *South Med J* 2000;93:562-566.

Heard K, O'Malley GF, Dart RC. Treatment of amitriptyline poisoning with ovine antibody to tricyclic antidepressants. *Lancet* 1999;354:1614-1615.

Aposhian HV, Arroyo A, Cerian ME, Del Razo LM, Hurlbut KM, Dart RC, et al. DMPS-Arsenic Challenge Test. *J Pharmacol Exper Ther* 1997; 282:192-200.

O'Malley GF, Seifert S, Heard K, Dart RC. Olanzapine overdose mimicking opioid intoxication. *Ann Emerg Med* 1999;34:279-81.

Heard K, O'Malley GF, Dart RC. Antivenom Therapy in the Americas. *Drugs* 1999;8:5-15.

W-F Kao, Dart RC, Kuffner E, Bogdan G. Ingestion of low concentration hydrofluoric acid: an insidious and potentially fatal poisoning. *Ann Emerg Med* 1999;34:35-41.

Boyer LV, Seifert SA, Clark RF, McNally JT, Williams SR, Nordt SP, Walter FG, Dart RC. Recurrent and persistent coagulopathy following pit viper envenomation. *Arch Intern Med* 1999;159:706-10.

O'Malley GF, Dart RC, Kuffner EF. Successful treatment of latroectism with antivenin after 90 hours. *N Engl J Med* 1999;340(8):657.

Moss ST, Bogdan G, Nordt SP, Williams SR, Dart RC, Clark RF. An examination of serial urinalyses in patients with North American crotalid envenomation. *J Toxicol - Clin Toxicol*. 1998;36:329-336.

Yip L, Dart RC, Hurlbut KM. Intravenous administration of oral N-acetylcysteine. *Crit Care Med* 1998;26:40-43.

Decker WW, Bogdan GM, Garcia RA, Wollen P, Dart RC. Heat and motion stability of polyvalent crotalidae antivenin, ovine Fab. *Toxicon* 1998;36:377-382.

Seifert SA, Dart RC, Kaplan EH. Accidental, intravenous infusion of a peanut oil-based medication. *J Toxicol – Clin Toxicol*. 1998;36:733-6.

Gomez HF, McClafferty HH, Flory D, Brent J, Dart RC. Prevention of gastrointestinal iron absorption by chelation from an orally administered deferoxamine/charcoal slurry. *Ann Emerg Med* 1997;30:587-592.

Aposhian HV, Arroyo A, Cebrian ME, Del Razo LM, Hurlbut KM, Dart RC, et al. DMPS-Arsenic challenge test. I: Increased urinary excretion of monomethylarsonic acid in humans give dimercaptopropane sulfonate. *J Pharmacol Exp Ther* 1997;282:192-200.

Dart RC, Seifert SA, Carroll L, Clark RF, Hall E, Boyer-Hassen LV, Curry SC, Kitchens CS, Garcia RA. Affinity-purified, mixed monospecific crotalid antivenom ovine Fab for the treatment of crotalid venom poisoning. *Ann Emerg Med* 1997;30:33-39.

Seifert SA, Boyer LV, Dart RC, Porter RS, Sjostrom L. Relationship of venom effects to venom antigen and antivenom serum concentrations in a patient with *Crotalus atrox* envenomation treated with a Fab antivenom. *Ann Emerg Med* 1997;30:49-53.

Moss ST, Bogdan G, Dart RC, Nordt SP, Williams SR, Clark RF. Association of rattlesnake bite location with severity of clinical manifestations. *Ann Emerg Med* 1997;30:58-61.

Cetaruk EW, Dart RC, Hurlbut KM, Horowitz RS, Shih R. Tylenol Extended Relief overdose. *Ann Emerg Med* 1997;30:104-108.

Horowitz RS, Dart RC, Jarvie DR, Bearer CF, Gupta U. Placental transfer of N-acetylcysteine following human maternal acetaminophen toxicity. *J Toxicol - Clin Toxicol* 1997;35:447-452.

Dart RC, Stark Y, Fulton B, Koziol-McClain J, Lowenstein SR. Insufficient stocking of poisoning antidotes in hospital emergency departments. *JAMA* 1996;276:1508-1510.

Maiorino RM, Gonzalez-Ramirez, Zuniga-Charles M, Xu Z, Hurlbut KM, Aposhian MM, Dart RC, Woods JS, Ostrosky-Wegman P, Gonshebb ME, Aposhian HV. Sodium 2,3-dimercaptopropionate-1-sulfonate challenge test for mercury in humans. III. Urinary mercury after exposure to mercurous chloride. *J Pharmacol Exp Ther* 1996;227:808-814.

Horowitz RS, Feldhaus K, Dart RC, Stermitz FR, Beck JJ. The clinical spectrum of Jin Bu Huan Toxicity. *Arch Intern Med* 1996;156:899-903.

Dart RC, Sidki A, Sullivan JB Jr, Egen NB, Garcia R. Ovine desipramine antibody fragments reverse desipramine cardiovascular toxicity in the rat. *Ann Emerg Med* 1996;27:309-315.

Dart RC, Garcia RA, Hurlbut KM, Boren JL. Development of a severity score for the assessment of crotalid snakebite. *Ann Emerg Med* 1996;27:321-326.

Dart RC, Hurlbut KM, Garcia R, Boren J. Validation of a severity score for the assessment of crotalid snakebite. *Comment in: Ann Emerg Med* 1996 Sep;28(3):371-2.

Aghababian RV, Barsan WG, Bickell WH, Biros MH, Brown CG, Cairns CB, Callahan ML, Carden DL, Cordell WH, Dart RC, et al. Research directions in emergency medicine. *Ann Emerg Med* 1996;27:339-342.

Horowitz RS, Dart RC. Clinical ergotism with lingual ischemia induced by clarithromycin-ergotamine interaction. *Arch Intern Med* 1996;156:456-458.

Aposhian HV, Maiorino RM, Gonzalez-Ramirez D, Zuniga-Charles M, Xu Z, Hurlbut KM, Junco-Munoz P, Dart RC, Aposhian MM. Mobilization of heavy metals by newer, therapeutically useful chelating agents. *Toxicol* 1995;97:23-38.

Gonzalez-Ramirez D, Maiorino RM, Zuniga-Charles M, Xu Z, Hurlbut KM, Junco-Munoz P, Aposhian MM, Dart RC, Diaz Gama JH. Sodium 2, 3-dimercaptopropionate-1-sulfonate challenge test for mercury in humans: II. Urinary mercury, porphyrins and neurobehavioral changes of dental workers in Monterrey, Mexico. *J Pharmacol Exper Ther* 1995;272(1):264-74.

Dart RC, Hurlbut KM, Maiorino RM, Mayersohn M, Aposhian HV, Boyer Hassen LV. Pharmacokinetics of meso-2,3-dimercaptosuccinic acid (DMSA) in lead poisoned patients and normal adults. *J Pediatr* 1994;125:309-316.

Hurlbut KM, Maiorino RM, Mayersohn M, Dart RC, Bruce DC, Aposhian HV. Determination and metabolism of dithiol chelating agents XVI: Pharmacokinetics of 2,3-dimercapto-1-propanesulfonate after intravenous administration to human volunteers. *J Pharmacol Exp Ther* 1994;268:662-668.

Dart RC, Liebler DC, Sipes IG, McCuskey RS. The relationship of hepatic injury and lipid peroxidation during hemorrhagic shock and resuscitation. *Life Sciences* 1993;53:1685-1690.

Dart RC. Chelation of heavy metals: The future. *J Toxicol - Clin Toxicol* 1992;30:491-492.

Aposhian HV, Maiorino RM, Rivera M, Bruce DC, Dart RC, Hurlbut KM, Levine DJ, Zheng W, Fernando Q, Carter D, Aposhian MM. Human studies with the chelating agents, DMPS and DMSA. *J Toxicol - Clin Toxicol* 1992;30:505-528.

Dart RC, O'Brien PC, Garcia RA, Jarchow JC, McNally J. Neutralization of *Micrurus* distans distans venom by antivenin (*Micrurus fulvius*). *J Wilderness Med* 1992;3:377-381.

Aposhian HV, Maiorino RM, Dart RC, Perry DF. Urinary mercury after administration of DMPS: Correlation with dental amalgam. *FASEB J* 1992;6:2472-2476.

Burgess JL, Dart RC, Egen NB, Mayersohn M. The effects of constriction bands on rattlesnake venom absorption: A pharmacokinetic study. *Ann Emerg Med* 1992;21:1086-1093.

Dart RC. Sequelae of pit viper envenomation, in *Biology of Pit Vipers*, Campbell JA, Brodie ED, Jr. eds. Selva Publishing, Tyler, Texas, 1992, pp 395-404. (peer reviewed book).

Gonzalez-Ramirez D, Zuniga-Charles M, Narro-Juarez A, Molina-Recio Y, Hurlbut KM, Dart RC, Aposhian HV. DMPS (2,3-dimercaptopropane-1-sulfonate, dimaval) decreases the body burden of mercury in humans exposed to mercurous chloride. *J Pharmacol & Exper Ther*. 1991;287(1):8-12.

Dart RC, Duncan C, McNally J. Effect of inadequate antivenin stores on the medical treatment of crotalid envenomation. *Vet Hum Toxicol* 1991;33:267-269.

Maiorino RM, Dart RC, Carter DE, Aposhian HV. Determination and metabolism of dithiol chelating agents: XII. Metabolism and pharmacokinetics of sodium 2,3-dimercaptopropane-1-sulfonate (DMPS) in humans. *J Pharmacol Exper Ther* 1991;259:808-814.

Burgess JL, Dart RC. Snake venom coagulopathy: Use and abuse of blood products in the treatment of pit viper envenomation. *Ann Emerg Med* 1991;20:795-801.

Whitley TW, Spivey WH, Abramson NS, Angelos MG, Barsan WG, Bradley K, Brown CG, Cordell WH, Dart RC, Drause GS, Martin G, Aghababian RV, McCabe JB, Gallery ME. A basic resource guide for emergency medicine research. *Ann Emerg Med* 1990;19:1306-1309.

Aposhian HV, Maiorino RM, Dart RC, Perry DF. Urinary excretion of meso-2,3-dimercaptosuccinic acid in human subjects. Clin Pharmacol Ther 1989;45:520-526.

Dart RC, Goldner A, Lindsey D. Efficacy of post envenomation administration of antivenin. Toxicon 1988;26:1218-1221.

Aposhian MM, Aposhian HV, Domingo JL, Llobet JM, Zheng W, Dart RC: Radon decay products: DMPA decreases tissue Polonium-210. Plzen Lek Sborn 1988;Suppl:99-101.

Aposhian HV, Dart RC, Aposhian MM, Dawson BV. Tissue decorporation of polonium-210 in rats by DMPA. Res Comm Chem Pathol Pharmacol 1987;58:157-171.

Dart RC, Lee SC, Joyce SJ, Meislin HW: Liquid crystal thermometry for continuous temperature measurement in Emergency Department patients. Ann Emerg Med 1985;14 (12):1188-1190.

Book Chapters, Reviews and Monographs

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Heard K, Yip L, Dart RC. Reporting of animal study methods – Are rigorous study methods used? *J Toxicol-Clin Toxicol* 1998, 36:490.

Bogdan GM, Holt S, Mlakar P, Dart RC. Does insufficient stocking of emergency antidotes in hospital pharmacies persist? *J Toxicol-Clin Toxicol* 1998, 36:433.

McDonald FW, McBee MD, Brotea G, Horowitz RS, Dart RC. Phenazopyridine as a factitious cause of hyperbilirubinemia. 1996 Spring session of the American Academy of Pediatrics, Chicago, IL, April 1996.

Cairns CB, Walther JM, Cetrak E, Legome E, Dart RC. Direct noninvasive assessment of the effect of hydroxocobalamin on cyanide toxicity. Annual Meeting of the Society of Academic Medicine, San Antonio, Texas, May 1995.

Aposhian HV, Maiorino RM, Gonzalez-Ramirez D, Zuniga-Charles M, Xu Z, Hurlbut KM, Junco-Munoz P, Dart RC, Woods JS, Aposhian MM. Use of DIMAVAL to improve urinary metals as biomarkers in humans. Fourth International Congress on Toxic Combustion Byproducts, June 5-7, 1994, Berkeley, California.

Butera R, Yip L, Dart RC. Intossicazioni acute da paracetamolo in età pediatrica: Predizione della comparsa di effetti tossici in base alla valutazione anamnestica della dose ingerita, risultati preliminari. ATTI del 10° Congresso Nazionale della Società Italiana di Tossicologia. September 21-24, 1994, Pavia, Italy

Bernstein JN, Dart RC, Garcia R, Najari Z, Egen N. Efficacy of antiscorpion (Centruroides exilicauda) Fab in a mouse model. Vet Human Toxicol 1994;36:346.

Horowitz RS, Dart RC, Hurlbut KM, Cienki JJ, McDonald F. Acute hepatitis associated with a Chinese herbal product, Jin Bu Huan. Vet Human Toxicol 1994;36:359.

Cienki JJ, Connolly HV, Nelson SA, McDonald FW, Horowitz RS, Hurlbut KM, Dart RC. Hepatotoxicity and death after treatment with Broncodin herbal tea. Vet Human Toxicol 1994;36:359.

Aposhian HV, Hurlbut KM, Maiorino RM, Dart RC, Aposhian MM. Pharmacokinetics of DMPS, the antidote of choice for mercury in humans. 2nd International Meeting on Molecular Mechanisms of Metal Toxicity and Carcinogenicity. January 10, 1993, Madonna di Campiglio, Italy.

Dart RC: Temafloxacin versus Cefadroxil in the treatment of skin or skin-structure infections. Eur J Clin Microbiol Infect Dis 1991;Special Issue:222-223.

Vayda J, Rappaport WD, Dart RC. A prospective study of complications associated with the use of abdominal computed tomography scanning in trauma patients. Ann Emerg Med 1991;20:450.

Hurlbut KM, Dart RC, Sullivan JB, Campbell DS: Use of DMSA in severe thallium toxicity. AAPCC/AACT/ABMT/CAPCC Annual Scientific Meeting. September 14-18, 1990. Tucson, Arizona.

Campbell DS, Dart RC, Mayersohn M: Pharmacokinetics of ¹²⁵I radiolabeled Crotalus atrox venom. AAPCC/AACT/ABMT/CAPCC Annual Scientific Meeting. September 14-18, 1990.

Dart RC, McNally J, Hurlbut KM, Spaite D: Western Snake Envenomation Database. Abstract. Toxicol 1989;27:40-41.

Spaite DW, Dart RC, Hurlbut KM, McNally JT: Skin testing: Implications in the management of pit viper envenomation. Abstract. Ann Emerg Med 17:389,1988.

Hurlbut KM, Dart RC, Spaite D, McNally JT: Reliability of clinical presentation for predicting significant pit viper envenomation. Abstract. Ann Emerg Med 17:438- 439,1988.

LECTURES/PRESENTATIONS

"Use of Data Surveillance", IMMPACT-X Meeting, Arlington, Virginia, June 3, 2009.

"Monitoring risk: post marketing surveillance and signal detection". CPDD Meeting. Reno, Nevada, June 24, 2009.

"Toxicity of Cough and Cold Medications". EAPCCT Annual Meeting. Stockholm, Sweden, May 14, 2009.

"Opioid Abuse, Misuse and Diversion: Strategies for Prevention". American Academy of Pain Medicine Meeting, Honolulu, Hawaii. January 27, 2009.

"National Stockpile of Medicine for Many Kinds of Threats Including Radiation Event". Japan Radiation Research Society Annual Meeting. Kitakyushu, Japan, November 21, 2008.

"Introduction to Poison Information Systems and the Rocky Mountain Poison & Drug Center". Bach Mai Hospital, Hanoi, Vietnam, November 2, 2008.

"The Impact of Prescription Opioid Abuse on Young Children (<6 years old): Report of Poison Center Data." NASCSA Conference. Ft. Lauderdale, FL, October 22, 2008.

"A hiccup in the indictment of cough and cold medicines". North American Congress of Clinical Toxicology. Toronto, Canada, September 24, 2008.

"Accelerating Research: Integrating Clinical Research with Critical Care". 44th DIA Annual Meeting. Boston, MA, June 25, 2008.

"Risk Management and Pharmacovigilance for Opioids". 44th DIA Annual Meeting. Boston, MA, June 25, 2008.

"Simple but Not Easy: New Challenges in Acetaminophen Poisonings". Emergency Medicine Grand Rounds, Brody School of Medicine, East Carolina University, Greenville, NC, June 11, 2008.

"Antidote Supply and Stocking Issues". European Association of Poison Centres and Clinical Toxicologists XXVII International Congress. Seville, Spain, May 8, 2008.

"Current Challenges in Buprenorphine Therapy: Monitoring Data and Trends in Data Systems". American Society of Addiction Medicine's 39th Annual Medical-Scientific Meeting. Toronto, Canada, April 22, 2008.

"North American Snakebites". International Toxinology Course. Adelaide, Australia, March 26, 2008.

"North American Black Widow Spider Bites". International Toxicology Course. Adelaide, Australia, March 26, 2008.

"Over the Counter Cough and Cold Medications in Children: Efficacy, Safety and Use". Society of Toxicology Annual Meeting. Seattle, WA, March 18, 2008.

"Enough is enough! How Long Should we Administer Acetylcysteine? North American Congress of Clinical Toxicology. New Orleans, LA, October 24, 2007.

"Black Widows". Venom Week, University of Arizona Health Sciences Center. Tucson, AZ, September 7, 2007.

"Consultation and Debriefing Meeting on the Response to Fentanyl-Related Overdoses and Deaths – Lessons for Dealing with future Outbreaks". U.S. Department of Health and Human

Services Substance Abuse and Mental Health Services Administration. Washington, DC, August 28-29, 2007.

"Methadone Associated Mortality in the RADARS System", US Department of Health and Human Services. Substance Abuse and Mental Health Services Administration. Center for Substance Abuse Treatment. Washington DC, July 20, 2007.

"New Developments in Acetaminophen Poisoning". Western Fellow's Tox Conference, Oakland, CA. April 19, 2007.

"Chronic Pain, Addiction, and the Law: Educational Initiative for Pharmacists in New Mexico". New Mexico Pharmacists Association 2007 Mid-Winter Meeting. Albuquerque, New Mexico, January 28, 2007.

"Antivenoms - Theory and Practice Overview". North American Congress of Clinical Toxicology, San Francisco, CA, October 8, 2006.

"North American Snakes and Snakebite". North American Congress of Clinical Toxicology, San Francisco, CA, October 8, 2006.

"Should we use the 150 or 200 line as a criteria for the treatment of acetaminophen overdose?" North American Congress of Clinical Toxicology, San Francisco, CA, October 7, 2006.

"The RADARS® System: A National Surveillance System for Misuse and Abuse of Prescription Opioids." North American Congress of Clinical Toxicology, Orlando, FL, September 11, 2005.

Panel Chair, "Stockpiling and Distribution; Opportunities and Obstacles" panel of "Emergency Medical Preparedness: Obstacles and Opportunities for Cooperation and Collaboration among and within Public and Private Stakeholder Organizations". Board on Health Sciences Policy, Institute of Medicine, Washington, DC, June 29, 2006.

"Effectively Using Call Center Services in Safety Net Hospitals and Health Systems." National Teleconference to National Association of Public Hospital and Health Systems. National teleconference, March 22, 2005.

"Research Needs in Envenomation: The Treatment is Effective, but the Patient Died." Reunión Internacional de Expertos en Envenenamiento por Animales Ponzosos, Cuernavaca, México. March 18, 2005

"Hepatotoxicity in Alcoholic Patients from Therapeutic Dosing of Acetaminophen." Society of Toxicology Annual Meeting, New Orleans, LA. March 8, 2005

"Experience with CroFab SERPLINE." CroFab Symposium, New Orleans, LA. February 10, 2005

"Research Directions in Snake Envenomations." Biology of the Rattlesnakes Symposium, Loma Linda University, Santa Ana, CA. January 17, 2005.

"Management of Acetaminophen Overdose." Grand Rounds, Vanderbilt University, Nashville, TN, December 13, 2004.

"Use of CroFab in Snake Envenomations." Grand Rounds, Vanderbilt University, Nashville, TN, December 13, 2004.

"Cyanide Poisoning in Smoke Inhalation and Biochemical Terrorism: Sources, Symptoms and Suggestions." American College of Emergency Physicians 2004 Scientific Assembly, San Francisco, CA, October 19, 2004.

"New Advances in Treatment of Acetaminophen Poisoning." Mayo Clinic Department of Emergency Medicine, Rochester, MN, October 5, 2004.

Toxicology Challenges for the Emergency Physician." Mayo Clinic Department of Emergency Medicine, Rochester, MN, October 5, 2004.

"Ellenhorn Award Lecture." North American Congress of Clinical Toxicology 2004, Seattle, WA, September 13, 2004.

"WMD Evidence Based Peer Review Protocols for EMS and Hospitals." 2004 CSEPP National Preparedness Workshop, Seattle, WA, June 15, 2004.

"The Clinical Experience with CroFab." Orphan Antivenoms, Clinical Use of Fab Fragment Antidotes to Treat Crotalid and Viperidae Bites in Europe and USA, EAPCCT, Strausbourg, France, June 3, 2004.

"Snakebite in North America." Toxicology Lecture Series, North Texas Poison Center (Parkland Health and Hospitals), Dallas, TX, April 28, 2004.

"WMD Evidence Based Peer Review Protocols for EMS and Hospitals." 2004 Conference for NDMS (National Disaster Medical System) Participants, Dallas, TX, April 21, 2004.

"Snake Envenomations and Current Management." 15th Annual Emergency Medicine for the Critically Ill and Injured, Orlando Regional Healthcare, Orlando, FL March 24, 2004.

"Top 10 Toxicology Articles of 2003: What you need to know." 15th Annual Emergency Medicine for the Critically Ill and Injured, Orlando Regional Healthcare, Orlando, FL, March 24, 2004.

"Toxicology Challenges for the Emergency Patient." 15th Annual Emergency Medicine for the Critically Ill and Injured, Orlando Regional Healthcare, Orlando, FL March 24, 2004.

"Management of Snake Envenomation" Grand Rounds, Arkansas Children's Hospital, Little Rock, AR, January 27, 2004.

"North American Snakes & Snakebite." Clinical Toxinology Training Course, University of Adelaide Faculty of Health Sciences, Adelaide, Australia, September 24, 2003.

"Initial Clinical Experience with Polyvalent Crotalid Antivenin (Ovine) FAB: Do Clinical Trials Reflect Widespread Clinical Use?" IST 14th World Congress on Animal, Plant and Microbial Toxins, Adelaide, Australia, September 19, 2003.

"Intravenous N-Acetylcysteine." North American Congress of Clinical Toxicology 2003, Chicago, Illinois, September 7, 2003.

"Implications of FDA Hearings on Acetaminophen, Aspirin, and NSAID Safety, Labeling and Dosing." APHA Self-Care Institute 2003, Charleston, South Carolina, June 21, 2003.

"Evidence Based Approach to the Use of APAP in the Alcoholic Patient." Topics in Emergency Medicine, San Francisco, California, October 21, 2002.

"Experiences of Investigators Looking for Industry Sponsors." Therapies for Rare Disease: From Bench to Marketplace. U.S. Food and Drug Administration, Washington, DC, September 24, 2002.

"Analgesic Use and Alcohol Consumption." Beyond the Headlines: Evaluating the Comparative Risks of OTC Analgesics. Pri-Med 2002, Chicago, Illinois, June 21, 2002.

"Vulnerability to acetaminophen (paracetamol) liver injury during therapeutic dosing: Does it exist?" European Association of Poison Control Centers and Clinical Toxicologists. Lisbon, Portugal. May 2002.

"Snakebite: A Toxicologist's Prospective." 13th Annual Emergency Medicine for the Critically Ill and Injured, Orlando Regional Healthcare, February 15, 2002.

"Acetaminophen Toxicity: New Insights." 13th Annual Emergency Medicine for the Critically Ill and Injured, Orlando Regional Healthcare, February 15, 2002.

"Gut Decontamination. Should We? Really?" 13th Annual Emergency Medicine for the Critically Ill and Injured, Orlando Regional Healthcare, February 15, 2002.

"The Management of Crotaline Snakebite." Emergency Medicine Grand Rounds, University of Alabama, Birmingham, Alabama, August 16 2001.

"Acetaminophen toxicity: Special issues and update." Quarterly Toxicology Rounds, Henry Ford Hospital, Detroit, Michigan, July 12, 2001.

"Envenomations" Toxicology Has No Borders Conference. University of Texas El Paso. June 22, 2001, El Paso, Texas.

"Evidence based approach to the use of APAP in the ETOH patient." Emergency Medicine. University of Michigan, April 18, 2001, Ann Arbor, Michigan.

"Lessons from the CroFab Trials" Reunion de Expertos en Envenenamiento por Animales Ponzonosos. March 30, 2001, Puebla, Mexico.

"Evidence based approach to the use of APAP in the ETOH patient." Thomas Jefferson University Hospital, November 30, 2000, Philadelphia, Pennsylvania.

"Developing Treatment Guidelines Using Evidence-Based Medicine." North American Congress of Clinical Toxicology, September 15, 2000, Tucson, Arizona.

"Antivenin Vs. Anti-Antivenin." 27th Annual Rocky Mountain Trauma and Emergency Medicine Conference, July 31, 2000, Steamboat Springs, Colorado.

"Weapons of Mass Destruction: Preparations against Terrorist Acts and Treatment of Victims." The First Asia-Pacific Regional Conference on Antidote Use and Administration. Foundation for Poison Control, National Poison Center, June 2-3, 2000, Taipei, Taiwan.

"Antivenoms and Dimercapto Chelating Agents." The First Asia-Pacific Regional Conference on Antidote Use and Administration. Foundation for Poison Control, National Poison Center, June 2-3, 2000, Taipei, Taiwan.

"Clinical Trials of Antibody Therapeutic Agents: Antivenoms and Antidepressants in North America." Department of Pharmacology Special Seminar, University of Melbourne, November 11, 1999, Melbourne, Australia.

"The Role of Paracetamol in the Treatment of the Alcoholic Patient with Pain or Fever - Analysis of the Evidence." Clinical Consensus - An International Update on Paracetamol. November 8, 1999, Sydney, Australia.

"Weapons of Mass Destruction Protocols" National Disaster Medical System Annual Conference. May 11, 1999, Washington, D.C.

"Polyclonal Antibodies as Emergency Therapeutic Agents: Beyond Snakebite" Division of Clinical Pharmacology and Toxicology, Department of Medicine, University of Colorado, May 5, 1999, Denver, Colorado.

"Antibodies as Emergency Therapeutic Agents" Grand Rounds, Internal Medicine, Mayo Foundation Visiting Physician, April 28, 1999, Rochester, Minnesota.

"Advances in Acetaminophen Toxicity" Department of Emergency Medicine, Mayo Foundation Visiting Physician, April 28, 1999, Rochester, Minnesota.

"Therapeutics of Crotalid Snakebite" Grand Rounds, Department of Surgery, Louisiana State University, March 30, 1999, Shreveport, Louisiana

"Antidote Stocking in the United States" Presymposium American Society of Health-System Pharmacists. December 7, 1998, Las Vegas, Nevada.

"Snakebite in United States: Challenges and Opportunities". 92nd Annual Scientific Assembly, Southern Medical Association. November 21, 1998, New Orleans, Louisiana.

"Hot Topics in Toxicology" 92nd Annual Scientific Assembly, Southern Medical Association. November 20, 1998, New Orleans, Louisiana.

"Actions of Poison Centers and Toxicologists in a Chem-Bio Incident: Current Plans and Future Proposals. ACMT Practice Symposium, North American Congress of Clinical Toxicology '98. September 15, 1998, Orlando, Florida.

"Paracetamol: Overdose and Alcohol Experience in the United States." Invited presentation to the Russian Pharmacological Committee. Royal Society of Physicians. June 21, 1998, London, United Kingdom

"Toxic Alcohols" Toxicology Has No Borders. Annual Conference of the Texas Poison Control System. May 2, 1998, El Paso, Texas.

"Venomous Bites" Toxicology Has No Borders. Annual Conference of the Texas Poison Control System. May 2, 1998, El Paso, Texas.

"Treatment Protocols and Pharmaceuticals." 1998 National Conference on Lifesaving Intervention. National Disaster Medical System, United States Public Health Service, March 31, 1998, Denver, Colorado.

"Toxicology Update: New Diseases, New Drugs." Emergency Medicine in the Rural and Suburban Setting. Oklahoma State University. March 1, 1998, Tulsa, Oklahoma.

"Contemporary Issues in the Management of Acetaminophen Overdose." ACEP Pre-conference symposium. October 6, 1997, San Francisco, California.

"Alternative Medicines" Annual Symposium of the American College of Medical Toxicology. September 12, 1997, St. Louis, Missouri.

"Poisons of the Rocky Mountain Region," Annual Meeting, American Society of Forensic Toxicology. October 16, 1996, Denver, Colorado.

"The Cutting Edge: Uncommon Presentations of Common Poisons," North American Congress of Clinical Toxicology. October 11, 1996, Portland, Oregon.

"The Cutting Edge: Snakebite in North America," North American Congress of Clinical Toxicology. October 11, 1996, Portland, Oregon.

"Therapeutic Antibodies: A Revolution in Critical Care Therapeutics?" 17th Annual Practical Therapeutics: A Western Regional Conference. September 22, 1996, Denver Colorado.

"Polyclonal Antibodies: A Revolution in Emergency Medical Therapeutics?" 1996 Annual Meeting, Society of Academic Emergency Medicine, May 5, 1996, Denver, Colorado.

"Poison Control Centers." Colorado Department of Public Health and Environment. August 28, 1995, Denver, Colorado.

"Antibodies as Therapeutic Agents." 5th World Congress of the World Federation of Associations of Clinical Toxicology Centers & Poison Control Centers, November 8-11, 1994, Taipei, Taiwan.

"New Developments in the Treatment of Snake Venom Poisoning." North American Congress of Clinical Toxicology. 1994 AAPCC/AACT/ACMT/CAPCC Scientific Meeting. September 23-26, 1994, Salt Lake City, Utah.

"The Management of Crotalid Snakebite" Pediatric Grand Rounds, Presbyterian/St. Luke's Medical Center, August 5, 1994, Denver, Colorado.

"Polyclonal Antibodies and Therapeutic Agents." Visiting Professorship, Maricopa Medical Center, June 22, 1994, Phoenix, Arizona.

"Advances in the Treatment of Snake Venom Poisoning." International Herpetological Society - Annual Meeting, June 17, 1994, New Orleans, Louisiana.

"Polyclonal Antibodies: An Emerging Therapy for Venomous and Pharmacologic Poisoning." Emergency Medicine for the Critically Ill and Injured. Orlando, Florida, February 26, 1994.

"Gastrointestinal Decontamination in Toxic Ingestions: A Daily Decision for Emergency Physicians." Emergency Medicine for the Critically Ill and Injured. Orlando, Florida, February 26, 1994.

"Polyclonal Antibodies: A Revolution in Emergency Medical Therapeutics?" Emergency Medicine Grand Rounds, University of Colorado, February 2, 1994.

"Critical Concepts in the Management of Acute Iron Poisoning in Children", Denver Children's Hospital, Denver, Colorado, August 2, 1993.

"Medical Management of North American Snake Venom Poisoning", Veterans General Hospital, Taipei, Taiwan, December 10, 1992.

"Clinical Toxicology of Lead", Human Exposure to Lead and Toxic Chemicals, Taiwan National Institute of Occupational Safety and Veterans General Hospital, Taipei, Taiwan, December 9, 1992.

"Clinical Aspects and Management of Metal and Toxic Exposure", Human Exposure to Lead and Toxic Chemicals, Taiwan National Institute of Occupational Safety and Veterans General Hospital, Taipei, Taiwan, December 8, 1992.

"Critical Decisions in the Management of Snake Venom Poisoning" Department of Surgery, Section of Emergency Medicine Grand Rounds, University of Arizona Health Sciences Center, July 21, 1992.

"Necrotic Arachnidism" Department of Medicine, Veterans Administration Medical Center, Tucson, Arizona, April 9, 1992.

"Clinical Toxicology and Treatment of Drug Overdose" RW Bliss Army Community Hospital, Fort Huachuca, Arizona, February 19, 1992.

"Rational Use of Antidotes" Clinical Pharmacology/Toxicology Lecture Series. Arizona Health Science Center, Tucson, Arizona, January 15, 1992.

"New Advances in Toxicology" Grand Rounds, Section of Emergency Medicine. Arizona Health Sciences Center, Tucson, Arizona, March 10, 1991.

"Antibodies as Therapeutic Agents" Department of Surgery Grand Rounds, University of Arizona, February 12, 1992.

"The Unknown Bite" Division of Emergency Medicine, University of Colorado, Denver, CO, January 29, 1992.

"Snakes, Scorpions, Spiders" Southwestern Poison Symposium, Tucson, Arizona, November 9, 1991.

"Toxicity of Dental Amalgams" Southwestern Poison Symposium, Tucson, Arizona, November 8, 1991.

"Southwestern Envenomations" Southwestern Trauma Symposium, Tucson Arizona, August 19, 1991.

"Bites and Stings" Grand Rounds, Section of Emergency Medicine. Arizona Health Sciences Center, Tucson, Arizona, July 9, 1991.

"Envenomations by the Brown Spider" Section of Dermatology, Arizona Health Sciences Center, Tucson, Arizona, May 29, 1991.

"Importance of Oxygen Free Radicals to the Surgeon" Grand Rounds, Department of Surgery, Arizona Health Sciences Center, Tucson, Arizona, October 13, 1990.

Moderator, "Metal Toxicology Workshop." AAPCC/ABMT/AACCT Annual Scientific Symposium, Tucson, Arizona, September 16, 1990.

"Arthropod Envenomations." University of California at San Diego Conference: Wilderness Emergencies. Snowmass, Colorado, August 17, 1990.

"Role of Oxygen Radicals in Hemorrhagic Shock - Resuscitation." Division of Surgical Biology, Department of Surgery, Arizona Health Sciences Center, Tucson, Arizona, July 17, 1990

"Principles of Clinical Toxicology." Grand Rounds, Section of Emergency Medicine. Arizona Health Sciences Center, Tucson, Arizona, July 17, 1990.

"Role of Oxygen Radicals in Hemorrhagic Shock." Surgical Biology Seminar. Surgical Biology staff and students. May 15, 1990.

"Role of Fasciotomy in the Management of Pit Viper Poisoning." Darnall Army Base Emergency Medicine Residency. May 30, 1990. Killeen, Texas.

"Southwestern Envenomations." UCLA Emergency Medicine Trauma Conference. May 31, 1990. Los Angeles, California.

"On the Horizon." American College of Emergency Physicians. Winter Symposium, Tucson, Arizona. March 15, 1990.

"Sequelae of Pit Viper Envenomation". Symposium on Biology of Pit Vipers. Texas Herpetological Association. November 19, 1989. Arlington, Texas.

"Pediatric Envenomations". Ninth Annual Southwestern Poison and Drug Information Symposium. November 9, 1989. Tucson, Arizona.

"Venomous Bites of Southern Arizona". Southwest Arizona Area Health Education Center, Nogales, Arizona, December 9, 1989.

"Management of Pediatric Envenomation." Grand Rounds. Section of Emergency Medicine, Arizona Health Sciences Center. Tucson, Arizona, September 1989.

"Management of Poisonous Snakebite in Children." Grand Rounds. Dept. of Pediatrics, Tucson, Arizona, July 1989.

"Hemorrhagic Shock." Emergency Medicine Grand Rounds
University of Arizona, Tucson, Arizona, 1988.

"Update on Antidotes." Arizona Society of Hospital Pharmacists, Tucson, Arizona, November 1988.

"Chelation Therapy." Seventh Annual Southwestern Poison and Drug Information Symposium, Tucson, Arizona, November 14, 1987

"Reperfusion Injury After Hemorrhagic Shock." Pharmacology Graduate Student Seminar. Tucson, Arizona, October 14, 1987

"Rattlesnake Envenomation: Role of Fasciotomy." Surgical Grand Rounds, Tucson, Arizona, September 12, 1987

"Rattlesnake Envenomation." Arizona Medical Association
Annual Scientific Meeting Phoenix, Arizona, June 4, 1987

"Controversies in Emergency Medicine: Snakebite." Emergency Medicine Grand Rounds, Arizona Health Sciences Center, Tucson, Arizona, October 19, 1986.

"Radiation Emergencies: Emergency Medical Response to Hazardous and Toxic Material Exposures." University of Arizona, Tucson, Arizona, February 1986.

"Development of Research Ideas." Emergency Medicine Grand Rounds, Arizona Health Sciences Center, Tucson, Arizona, January 1986

"Update on Snake Venom Poisoning." California Medical Center Hospital, Los Angeles, October 1985

RESEARCH FUNDING

PI: Dart RC, Bogdan GM

Project: Antidote Summit: literature and national consensus panel stocking recommendations

Source: Multiple

Period: 2007-2008

PI: Dart RC, Green JL
Project: Evaluation of pediatric exposures to OTC oral cough & cold products
Source: Multiple
Period: 2007-2009

PI: Dart RC
Project: The RADARS® System
Source: Multiple
Period: 2006-2009

PI: Dart RC
Project: Phase II and III trials of black widow spider antivenom
Source: Rare Disease Therapeutics
Period: 2005-2010

PI: Dart RC, Heard KF, Green JL
Project: Aminotransferase trends during prolonged therapeutic dosing with acetaminophen
Source: McNeil Consumer Specialty Products
Period: 2008-2009

PI: Dart RC, Heard KF, Green JL
Project: Prospective trial of therapeutic acetaminophen use in non-drinking patients
Source: McNeil Consumer Specialty Products
Period: 2005-2008

PI: Dart RC, Heard KF, Green JL
Project: Utility of acetaminophen-protein adducts in the determination of acetaminophen exposures
Source: McNeil Consumer Specialty Products
Period: 2005-2009

PI: Dart RC
Project: Toxicology Investigators Network (ToxIN) - Retrospective comparison of safety and efficacy between the oral and intravenous forms of N-acetylcysteine.
Source: American Academy of Clinical Toxicology & Cumberland Pharmaceuticals
Period: 2005-2008

PI: Dart RC
Project: Meta-Analysis of intravenous N-acetylcysteine efficacy and safety.
Source: Cumberland Pharmaceuticals
Period: 2001-2004

PI: Dart RC
Project: Development of a multi-center clinical protocol for a prospective trial of therapeutic acetaminophen use in alcoholic patients.
Source: McNeil Consumer Specialty Products
Period: 2001-2004

PI: Dart RC

Project: Development of a clinical protocol for a prospective trial of therapeutic acetaminophen use in moderate drinkers.
Source: McNeil Consumer Specialty Products
Period: 2003-2004

PI: Dart RC
Project: Coordinate and conduct a multi-center surveillance project on opioid abuse reported to poison centers.
Source: PurduePharma Inc.
Period: 2002-2005

PI: Anderson MA, Bogdan GM, Dart RC
Project: Develop a Pediatric Environmental Health Specialty Unit (PEHSU) for US Region 8
Source: Association of Occupational & Environmental Clinics (AOEC)
Period: 2001-2009

PI: Anderson MA, Bogdan GM, Dart RC
Project: Provide outreach to Colorado physicians about elevated blood lead in children
Source: Colorado Department of Public Health & Environment (CDPHE)
Period: 2003

PI: Bronstein AC, Dart RC
Project: Pilot project to analyze utility of poison center data as part of real-time toxicsurveillance system in Colorado
Source: Colorado Department of Public Health & Environment (CDPHE)
Period: 2003-2004

PI: Davidson A, Dart RC, Bogdan GM
Project: Denver Center for Advanced Public Health Preparedness
Source: Centers for Disease Control and Prevention – Health Alert Network Exemplar Grant
Period: 1999-2003

PI: Dart RC
Project: Treatment of acetaminophen overdose with intravenous N-Acetylcysteine
Source: Cumberland Pharmaceuticals, Inc
Period: 2000-2001

PI: Dart RC, Bogdan GM
Project: Development of a Denver Metropolitan Medical Response System
Source: US Department of Health & Human Services – US Public Health Service
Period: 1997-2001

PI: Dart RC
Project: Analysis & Update of the 1996 Olympic Clinical Treatment Protocols for Casualties Resulting from Terrorist Incidents Involving Weapons of Mass Destruction by Consensus Review
Source: US Department of Health & Human Services – Office of Emergency Preparedness
Period: 1998-2000

PI: Daly FR, Dart RC

Project: Neutralization of *Latrodectus mactans* venom by antivenom developed for *Latrodectus hasseltii* in humans, a prospective case series
Source: Rocky Mountain Poison & Drug Foundation
Period: 1998-2000

PI: Daly FR, Dart RC
Project: Neutralization of *Latrodectus mactans* venom by antivenom developed for *Latrodectus hasseltii*
Source: Rocky Mountain Poison & Drug Foundation
Period: 1998-2000

PI: Dart RC
Project: Controlled clinical trial of the accuracy of dimercaptopropane sodium sulfonate (DMPS) as a diagnostic agent for mercury and arsenic body burden
Source: Heyl Chemisch-Pharm
Period: 1998-2000

PI: Waksman JC, Dart RC
Project: Study of tumor necrosis factor levels resulting from a variety of patient ingestions
Source: Rocky Mountain Poison & Drug Foundation
Period: 1998-2000

PI: Bogdan GM, Dart RC
Project: Rocky Mountain Arsenal Medical Monitoring Program - Referral System
Source: Colorado Department of Public Health & Environment
Period: 1997-2008

PI: Dart RC
Project: Trial to determine the safety, pharmacokinetics and pharmacodynamics of affinity purified digoxin immune Fab (ovine, lyophilized)
Source: Protherics, Inc. (formerly Therapeutic Antibodies, Inc.)
Period: 1996-2000

PI: Dart RC
Project: Surveillance of pediatric blood lead levels reported to Rocky Mountain Poison & Drug Center.
Source: Colorado Department of Public Health & Environment (CDPHE)
Period: 1995-2000

PI: Dart RC
Project: Comparison of reconstitution times for CroFab and Antivenin (Crotalidae) Polyvalent [Wyeth]
Source: Savage Laboratories - Altana Inc.
Period: 1999

PI: Dart RC
Project: Revision of Overdose Sections of Package Inserts
Source: Schering Corporation
Period: 1999

- PI: Dart RC, Bogdan GM
Project: Impact of a Poison Center on Insufficient Stocking of Antidotes
Source: Orphan Medical Inc
Period: 1998-1999
- PI: Dart RC
Project: Combined evidence-based literature analysis and consensus guidelines for stocking of emergency antidotes in the United States
Source: US Department of Health & Human Services - Health Resources and Services Administration
Period: 1998-1999
- PI: Dart RC, O'Malley GF
Project: Development of a model for crotalid venom-induced histopathologic changes in mammalian joints
Source: University of Colorado Health Sciences Center Department of Surgery Dean's Grant
Period: 1998-1999
- PI: Heard K, Dart RC
Project: Geriatric Poisoning - Epidemiology and Outcome of Elderly Poisoning Patients
Source: Society of Academic Emergency Medicine, CORD Geriatric Emergency Medicine Resident/Fellow Grant
Period: 1998-1999
- PI: Dart RC, Bogdan GM
Project: Registry to record the adverse effects and development of recurrence after typical clinical use of Antivenin (Crotalidae) Polyvalent [Wyeth]
Source: Protherics, Inc.
Period: 1997-1999
- PI: Aposhian HV, Dart RC
Project: DMSA, DMPS, and other Orally Active Dithiol Chelators
Source: National Institutes of Environmental Health & Safety
Period: 1992-2000
- PI: Dart RC
Project: An Open-Label Safety Study of An Escalating Dosage Regimen of Affinity Purified Ovine Broad Spectrum Cyclic Antidepressant Immune Fab (TriTAB)
Source: Protherics, Inc. (formerly Therapeutic Antibodies, Inc.)
Period: 1997-1999
- PI: Dart RC
Project: Development of verapamil-specific polyclonal antibody Fab fragments to reverse verapamil cardiotoxicity
Source: American Academy of Clinical Toxicology & Rocky Mountain Poison & Drug Foundation
Period: 1997-1999
- PI: Dart RC, Bogdan GM
Project: Clinical Trial of a New Antidote for Ethylene Glycol & Methanol Intoxication

Source: Orphan Medical, Inc.
Period: 1997-1999

PI: Dart RC, Kuffner EK
Project: Evaluation of hepatotoxicity in alcoholics from therapeutic dosing of acetaminophen
Source: McNeil Consumer Products Inc.
Period: 1996-1999

PI: Dart RC
Project: Trial to determine the safety, pharmacokinetics and pharmacodynamics of affinity purified digoxin immune Fab (ovine, lyophilized)
Source: Protherics, Inc. (formerly Therapeutic Antibodies, Inc.)
Period: 1996-1999

PI: Dart RC, Bogdan GM
Project: Study to develop a registry of human exposures to *N,N*-Diethyl-*m*-toluamide (DEET)
Source: Chemical Specialty Manufacturers Association
Period: 1995-1999

PI: Dart RC
Project: Treatment of acetaminophen overdose with intravenous N-Acetylcysteine
Source: Apotheon Inc.
Period: 1995-1999

PI: Dart RC
Project: An Open-Label, Parallel Comparative Study Between Two Dosing Regimens of CroTab™ affinity purified immune Fab (ovine, lyophilized)
Source: Protherics, Inc. (formerly Therapeutic Antibodies, Inc.)
Period: 1997-1998

PI: Dart RC
Project: Unrestricted Educational Grant
Source: Williams and Wilkins Publishing
Period: 1997

PI: Dart RC, Denzel D
Project: Therapeutic Guidelines on Surgical and Non-Surgical Antimicrobial Prophylaxis
Source: American Society of Health-System Pharmacists
Period: 1995-1997

PI: Palmer ME, Dart RC (preceptor)
Project: Snakebite Antivenin Trials in Plants from Belize: Bioassay screen, dose response relationships, and cross-reactivity among two venoms
Source: Emergency Medicine Foundation
Period: 1995-1996

PI: Dart RC, Decker W
Project: Stability of Crotalidae Polyvalent Antivenom under field conditions
Source: Wilderness Medical Society
Period: 1994-1995

PI: Dart RC
Project: Efficacy and pharmacokinetics of affinity purified digoxin immune Fab (ovine, lyophilized) in a rat model
Source: Therapeutic Antibodies, Inc
Period: 1993-1995

PI: Dart RC, Hurlbut KM
Project: Development of a severity score for the assessment of poisonous snakebite
Source: Therapeutic Antibodies, Inc
Period: 1993-1994

PI: Dart RC
Project: Analysis of 4-tert-amylphenol and 2-phenylphenol toxicity.
Source: Genetics Institute, Inc
Period: 1998

PI: Dart RC.
Project: A clinical trial of affinity purified immune Fab (ovine, lyophilized) antivenom.
Source: US Food & Drug Administration Orphan Drug Grant
Period: 1993-1995

PI: Dart RC.
Project: Isolation and efficacy of Anti-Scorpion Fab.
Source: Arizona Disease Control Research Commission
Period: 1992-1993

PI: Bernstein JN, Dart RC
Project: Development of a Fab Scorpion Antivenom.
Source: Emergency Medicine Foundation.
Period: 1992-1993

PI: Dart RC, Burgess JB
Project: The effect of constriction bands on rattlesnake venom absorption: A pharmacokinetic study.
Source: Emergency Medicine Foundation
Period: 1990

PI: Sullivan JB, Dart RC:
Project: Testing of anti-tricyclic F(ab) fragments in a porcine model.
Source: Burroughs Wellcome
Period: 1990-1991

PI: Dart RC, Meislin HW
Project: Evaluation of ketorolac tromethamine IM and meperidine hydrochloride IM in patients with pain in a hospital emergency room.
Source: Syntex Laboratories, Inc.
Period: 1990-1991

PI: Dart RC

Project: The safety and efficacy of temafloxacin 600 mg BID compared to cefadroxil 500 mg BID in the treatment of bacterial skin or skin structure infection.

Source: Roche Pharmaceutical

Period: 1989

PI: Dart RC

Project: Role of Oxygen Radical Generated Lipid Peroxidation in Resuscitation From Cardiac Arrest.

Source: American Heart Association, Arizona Affiliate

Period: 1988

PI: Dart RC

Project: Delivery of Rattlesnake Antivenin Across The Skin.

Source: Arizona Disease Control Research Commission.

Period: 1985-1986

6/9/2010